

carrying medium is at least partially vaporized and said heat temperature raising medium is at least partially solidified.

25. A method as claimed in claim 3, wherein the heat temperature raising medium is selected from the group consisting of an organic or inorganic chemical, and mixtures thereof, either in a pure form or in a compound with a melting range of between -30°C and 100°C , with the proviso that when the heat temperature raising medium is selected from a mixture of compounds, the mixture has a eutectic point range between -30°C and 100°C .

26. A method as claimed in claim 3, wherein the step of transferring heat from a heat source via a first heat carrying medium comprises transferring heat via a multiple set of heat temperature raisers thereby elevating the heat temperature raising medium in multiple steps.

27. A method as claimed in claim 3, wherein said process is used in air-conditioning distillative freezing, ice making, cable water purification, waste water treatment, desalination, distillation operation under ambient temperature or high temperature, organic chemical purification and separation, or in any other process requiring the use of raising the temperature from a lower temperature heat source to a high temperature heat sink.--

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